



*Human Subjects Protection Program
Office of Science
U.S. Department of Energy*



Beryllium Testing for Research and Beyond: The ABC's of the LPT

Beryllium Testing for Research and Beyond: The ABCs of the LPT May 2001

Cases of chronic beryllium disease (CBD), a legacy of the Department of Energy's (DOE) role in weapons production, have been increasing across the DOE complex. This trend has sparked increased concern about this serious occupational illness. In a national effort to identify current and former workers who have CBD or are sensitized to beryllium and to better understand the illness, DOE has set up a number of medical surveillance and research programs for both current and former workers. The way that workers enroll in the programs and the information that they are given prior to participating in the beryllium lymphocyte proliferation testing (Be-LPT) vary depending on where and when the worker was employed in a DOE facility.

Where research is involved, the DOE Human Subjects Research Program in the Office of Science has the responsibility to ensure that the rights and welfare of human research subjects are protected.* However, the Office of Science is providing this guide to all current and former beryllium workers, whether involved in research or not, to make information about CBD and beryllium sensitivity testing available so that all workers can make an informed choice about participation.

The following guide offers individuals general information about DOE's beryllium testing programs. The guide addresses:

- Informational Resources
- Eligibility and enrollment in the DOE programs
- Program contacts
- The beryllium lymphocyte proliferation test (Be-LPT)
- Risks and benefits of testing
- Privacy of test results

This guide is not intended to provide details of each DOE site program or medical benefits information.

For more information:

To find out about the DOE Human Subjects Protection Program visit: <http://www.science.doe.gov/ober/humsubj/index.html>.

To learn more about the DOE Beryllium Program see Title 10 CFR 850, *Chronic Beryllium Disease Prevention Program* rule at <http://tis-nt.eh.doe.gov/be/webdoc4.html-ssi>. This rule applies to DOE offices and contractors and covers medical screening for DOE federal and contractor workers.

Workers who are currently employed at a DOE site can obtain more detailed information about the beryllium by contacting the occupational medicine department at the site.

Former workers can obtain more information about the Former Worker Programs at <http://tis.eh.doe.gov/workers/>, or call one of the toll-free phone numbers listed in the guide under the question "Where do I get information on beryllium programs?" (Page 4)

To contact DOE's Office of Worker Advocacy on CBD or other health or compensation issues, call 1 (877) 447-9756 or see <http://tis.eh.doe.gov/advocacy/contact/contact.html>.

Other Applicable regulations:

10 CFR 745, *Protection of Human Subjects* (Common Rule)

DOE Order and Policy 443.1, "Protection of Human Subjects"

DOE, Access Handbook, *Conducting Health Studies at Department of Energy Sites*, Appendix 2 (rev. December 6, 1999)

* In 1998, the Secretary of Energy assigned the Office of Science responsibility "for making final decisions as to what constitutes DOE-related human subject research and how human research subject protection must be implemented. Secretary of Energy memo, "Update on Departmental Policy for the Protection of Human Subjects in Research," (January 20, 1998).

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	Current DOE Worker Programs		Former DOE Worker Programs	
	Currently works with beryllium	Previously worked with or may have been exposed to beryllium	Previously employed at DOE and may have been exposed to beryllium while working at a DOE site	
			Sites with Former Worker Medical Surveillance Programs	All other sites
Who is eligible for medical screening programs for beryllium?	A current worker who regularly works with beryllium at DOE.	<p>A current worker who may have been exposed to beryllium at a DOE facility. The DOE facility can be the one where you are currently employed or one where you were employed in the past.</p> <p>Also eligible are current workers who have:</p> <ul style="list-style-type: none"> • Signs of beryllium disease, or • Been removed from beryllium work based on a medical recommendation regardless of where the exposure occurred. 	<p>Persons included in Former Worker Medical Surveillance Programs at the following DOE sites:</p> <ul style="list-style-type: none"> • Hanford • Oak Ridge • Idaho • Nevada Test Site • Savannah River • Los Alamos • Gaseous Diffusion Plants at Portsmouth, Paducah, or Oak Ridge • Amchitka 	All other former DOE workers, who may have been exposed to beryllium while employed at DOE but who were not employed at one of the DOE sites listed in the box to the left.
How do I get started?	<p>In one of three ways:</p> <ul style="list-style-type: none"> • Your employer will identify you as a beryllium worker. • Your site occupational medical department will contact you. • Identify yourself to your site occupational medical department if you believe you are eligible for screening. 	<p>In one of three ways:</p> <ul style="list-style-type: none"> • Your employer will identify you as eligible. • Your site occupational medical department will contact you. • Identify yourself to your site occupational medical department if you believe you are eligible for screening. <p>Many DOE sites are distributing questionnaires to workers to help with this identification.</p>	<p>In one of two ways:</p> <p>You will be contacted by the Former Worker Project Office at the DOE site where you worked.</p> <p>Identify yourself to the Former Worker Project Office at the DOE site where you worked (See the question below "Where do I get information on beryllium programs?" page 4).</p>	<p>In one of two ways:</p> <p>You will be contacted by Oak Ridge Institute for Science and Education (ORISE).</p> <p>Identify yourself to Oak Ridge Institute for Science and Education (ORISE). (See the question below "Where do I get information on beryllium programs?" page 4).</p>

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How does the medical screening program work?	<p>Participation in the program is voluntary.</p> <p>If you choose to participate, you will be asked to give your written consent to pursue screening.</p> <p>You will be asked to complete a questionnaire about your current work, your work history, and some general health related questions.</p> <p>A health professional will review the completed questionnaire with you and explain the medical screening program to you.</p>	<p>Participation in the program is voluntary.</p> <p>If you choose to participate, you will be asked to give your written consent to pursue screening.</p> <p>You will be asked to complete a questionnaire about your current work, your work history, and some general health related questions.</p> <p>A health professional will review the completed questionnaire with you and explain the medical screening program to you.</p>	<p>Participation in the program is voluntary.</p> <p>If you choose to participate, you will be asked to give your written consent to pursue screening.</p> <p>You will be asked to complete a questionnaire about your work history, and some general health related questions.</p> <p>A health professional will review the completed questionnaire with you and explain the medical screening program to you.</p>	<p>Participation in the program is voluntary.</p> <p>If you choose to participate, you will be asked to give your written consent to pursue screening.</p> <p>You will be asked to complete a questionnaire about your work history, and some general health related questions.</p> <p>A health professional will review the completed questionnaire with you and explain the medical screening program to you.</p>

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Where do I get information on beryllium programs?	<p>Your employer will provide you with beryllium training that includes information about medical screening.</p> <p>Your supervisor and safety and health support personnel have information on this subject.</p> <p>Your site occupational medicine department has the details on the programs.</p>	<p>Your employer will provide you with beryllium training that includes information about medical screening.</p> <p>Your supervisor and safety and health support personnel have information on this subject.</p> <p>Your site occupational medicine department has the details on the programs.</p>	<p>The site occupational medicine department where you worked, or call the pilot projects directors at the toll-free phone number provided:</p> <ul style="list-style-type: none"> • Gaseous Diffusion Workers at Portsmouth, Paducah, and Oak Ridge (K-25) 1 (888) 241-1199 • Hanford Construction -1 (800) 866-9663 Production - 1 (800) 419-9691 • Idaho National Engineering and Environmental Laboratory 1 (888) 241-1199 • Los Alamos National Laboratory 1 (877) 500-8615 • Nevada Test Site 1 (888) 636-8161 • Oak Ridge Building Trades 1 (888) 464-0009 • Savannah River Construction – 1 (800) 866-9663 Production – 1 (888) 286-2588 • Amchitka 1 (888) 827-6772 	<p>The site occupational medicine department where you worked, or call Oak Ridge Institute for Science and Education (ORISE) at the toll-free phone number provided:</p> <ul style="list-style-type: none"> • Colorado Office 1 (866) 812-6703 • Tennessee Office 1 (866) 219-3442

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Where do I get information on beryllium programs? (continued)	<p>The following four fact sheets:</p> <ol style="list-style-type: none"> 1. Beryllium and Chronic Beryllium Disease 2. Lymphocyte Proliferation Test 3. Screening Examination for Beryllium Disease 4. Diagnostic Work-up for Chronic Beryllium Disease <p>All are available at:</p> <p>http://www.ornl.gov/cer/BMSP_pro/be-facts.htm</p>	<p>The following four fact sheets:</p> <ol style="list-style-type: none"> 1. Beryllium and Chronic Beryllium Disease 2. Lymphocyte Proliferation Test 3. Screening Examination for Beryllium Disease 4. Diagnostic Work-up for Chronic Beryllium Disease <p>All are available at:</p> <p>http://www.ornl.gov/cer/BMSP_pro/be-facts.htm</p>	<p>The following four fact sheets:</p> <ol style="list-style-type: none"> 1. Beryllium and Chronic Beryllium Disease 2. Lymphocyte Proliferation Test 3. Screening Examination for Beryllium Disease 4. Diagnostic Work-up for Chronic Beryllium Disease <p>All are available at:</p> <p>http://www.ornl.gov/cer/BMSP_pro/be-facts.htm</p>	<p>The following four fact sheets:</p> <ol style="list-style-type: none"> 1. Beryllium and Chronic Beryllium Disease 2. Lymphocyte Proliferation Test 3. Screening Examination for Beryllium Disease 4. Diagnostic Work-up for Chronic Beryllium Disease <p>All are available at:</p> <p>http://www.ornl.gov/cer/BMSP_pro/be-facts.htm</p>
What screening test is done to detect beryllium sensitivity?	<p>The test is called the beryllium-lymphocyte proliferation test (Be-LPT).</p> <p>It is a blood test to detect how certain white blood cells react to beryllium.</p>	<p>The test is called the beryllium-lymphocyte proliferation test (Be-LPT).</p> <p>It is a blood test to detect how certain white blood cells react to beryllium.</p>	<p>The test is called the beryllium-lymphocyte proliferation test (Be-LPT).</p> <p>It is a blood test to detect how certain white blood cells react to beryllium.</p>	<p>The test is called the beryllium-lymphocyte proliferation test (Be-LPT).</p> <p>It is a blood test to detect how certain white blood cells react to beryllium.</p>
Is testing voluntary?	<p>Yes.¹</p> <p>Your written consent is required.²</p>	<p>Yes.</p> <p>Your written consent is required.²</p>	<p>Yes.</p> <p>Your written consent is required.²</p>	<p>Yes.</p> <p>Your written consent is required.²</p>

¹Rule 10 CFR 850 (Effective January 7, 2000) requires that Be-LPT testing must be voluntary. However, current site practices may vary. (The deadline for compliance is January 7, 2002.)

² Before consenting to the Be-LPT, please see the statements regarding future work and risks described on pages 9 and 10.

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What if I decline to have a Be-LPT done?	You will be offered testing again at your next regularly scheduled physical examination. If you decide you want to be tested before your next scheduled exam, you should notify the medical department and your testing will be arranged. (See footnote 1 on page 5.)	You will be offered testing again at your next regularly scheduled physical examination. If you decide you want to be tested before your next scheduled exam, you should notify the medical department and your testing will be arranged.	You will be offered the Be-LPT again in approximately three years unless you specifically request never to be contacted again. If you wish to be tested sooner, you should call the appropriate toll-free number listed on page 4.	You will be offered the Be-LPT again in approximately three years unless you specifically request never to be contacted again. If you wish to be tested sooner, you should call the appropriate toll-free number listed on page 4.
How is the Be-LPT done?	Two tablespoons of blood are taken from a vein and sent to a laboratory where the Be-LPT test is done.	Two tablespoons of blood are taken from a vein and sent to a laboratory where the Be-LPT test is done.	Two tablespoons of blood are taken from a vein and sent to a laboratory where the Be-LPT test is done.	Two tablespoons of blood are taken from a vein and sent to a laboratory where the Be-LPT test is done.
How reliable is the Be-LPT test?	<p>The Be-LPT is the test used to screen for sensitivity to beryllium.</p> <p>This is not a test that your doctor would routinely perform. Only a handful of laboratories in the U.S. can perform it.</p> <p>Because 1 out of 4 people who have one positive test do not have a positive result on a second test, two positive tests are required to indicate that a person is sensitized to beryllium.</p> <p>A clinical work-up is performed to determine if a worker has CBD.</p>	<p>The Be-LPT is the test used to screen for sensitivity to beryllium.</p> <p>This is not a test that your doctor would routinely perform. Only a handful of laboratories in the U.S. can perform it.</p> <p>Because 1 out of 4 people who have one positive test do not have a positive result on a second test, two positive tests are required to indicate that a person is sensitized to beryllium.</p> <p>A clinical work-up is performed to determine if a worker has CBD.</p>	<p>The Be-LPT is the test used to screen for sensitivity to beryllium.</p> <p>This is not a test that your doctor would routinely perform. Only a handful of laboratories in the U.S. can perform it.</p> <p>Because 1 out of 4 people who have one positive test do not have a positive result on a second test, two positive tests are required to indicate that a person is sensitized to beryllium.</p> <p>A clinical work-up is performed to determine if a worker has CBD.</p>	<p>The Be-LPT is the test used to screen for sensitivity to beryllium.</p> <p>This is not a test that your doctor would routinely perform. Only a handful of laboratories in the U.S. can perform it.</p> <p>Because 1 out of 4 people who have one positive test do not have a positive result on a second test, two positive tests are required to indicate that a person is sensitized to beryllium.</p> <p>A clinical work-up is performed to determine if a worker has CBD.</p>

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Do I only need to be tested once?	<p>No, because it can take many years for beryllium sensitization to appear after a worker has been exposed to beryllium.</p> <p>If the first Be-LPT is negative you will be offered a test every year as part of routine monitoring.</p> <p>If the first test is positive, you will be offered another Be-LPT test to confirm the results of the first test.</p> <p>If the second test does not confirm the first test's results, a third test may be offered.</p>	<p>No, because it can take many years for beryllium sensitization to appear after a worker has been exposed to beryllium.</p> <p>If the first Be-LPT is negative you will be offered a test every three years as part of routine monitoring.</p> <p>If the first test is positive, you will be offered another Be-LPT test to confirm the results of the first test.</p> <p>If the second test does not confirm the first test's results, a third test may be offered.</p>	<p>No, because it can take many years for beryllium sensitization to appear after a worker has been exposed to beryllium.</p> <p>If the first Be-LPT is negative you will be offered a test every three years as part of routine monitoring.</p> <p>If the first test is positive, you will be offered another Be-LPT test to confirm the results of the first test.</p> <p>If the second test does not confirm the first test's results, a third test may be offered.</p>	<p>No, because it can take many years for beryllium sensitization to appear after a worker has been exposed to beryllium.</p> <p>If the first Be-LPT is negative you will be offered a test every three years as part of routine monitoring.</p> <p>If the first test is positive, you will be offered another Be-LPT test to confirm the results of the first test.</p> <p>If the second test does not confirm the first test's results, a third test may be offered.</p>

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What happens if the Be-LPT tests indicate that I may be sensitized?	<p>Your site occupational medicine department will meet with you and discuss the options you have for follow-up, including:</p> <ul style="list-style-type: none"> Accepting a referral to specialists for further examination and testing. Requesting a review of the screening results by another physician of your choice. Also see page 10 for additional Information. <p>Note: DOE uses the term “sensitized” to mean that the individual has had positive results on at least two Be-LPTs confirming exposure and an immune system response to beryllium. Only one positive Be-LPT is required for Energy Employees Occupational Illness Compensation Program coverage of follow-up medical costs.</p>	<p>Your site occupational medicine department will meet with you and discuss the options you have for follow-up, including:</p> <ul style="list-style-type: none"> Accepting a referral to specialists for further examination and testing. Requesting a review of the screening results by another physician of your choice. Also see page 10 for additional Information. <p>Note: DOE uses the term “sensitized” to mean that the individual has had positive results on at least two Be-LPTs confirming exposure and an immune system response to beryllium. Only one positive Be-LPT is required for Energy Employees Occupational Illness Compensation Program coverage of follow-up medical costs.</p>	<p>The physician who conducted the test will refer you for further examination and testing.</p> <p>Note: DOE uses the term “sensitized” to mean that the individual has had positive results on at least two Be-LPTs confirming exposure and an immune system response to beryllium. Only one positive Be-LPT is required for Energy Employees Occupational Illness Compensation Program coverage of follow-up medical costs.</p>	<p>The physician who conducted the test will refer you for further examination and testing.</p> <p>Note: DOE uses the term “sensitized” to mean that the individual has had positive results on at least two Be-LPTs confirming exposure and an immune system response to beryllium. Only one positive Be-LPT is required for Energy Employees Occupational Illness Compensation Program coverage of follow-up medical costs.</p>

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What further tests may be recommended?	<p>At the same time as a sample of your blood is taken for the Be-LPT test, additional tests will be offered including:</p> <ul style="list-style-type: none"> Chest x-rays. Breathing tests called pulmonary function studies. Physical examination. <p>If the Be-LPT is positive, additional tests may include:</p> <ul style="list-style-type: none"> Internal lung tests called bronchoalveolar lavage. Lung biopsy. CAT Scan. 	<p>At the same time as a sample of your blood is taken for the Be-LPT test, additional tests will be offered including:</p> <ul style="list-style-type: none"> Chest x-rays. Breathing tests called pulmonary function studies. Physical examination. <p>If the Be-LPT is positive, additional tests may include:</p> <ul style="list-style-type: none"> Internal lung tests called bronchoalveolar lavage. Lung biopsy. CAT Scan. 	<p>If the Be-LPT is positive, additional tests may include:</p> <ul style="list-style-type: none"> Chest x-rays. Breathing tests called pulmonary function studies. Internal lung tests called bronchoalveolar lavage. Lung biopsy. CAT Scan. 	<p>If the Be-LPT is positive, additional tests may include:</p> <ul style="list-style-type: none"> Chest x-rays. Breathing tests called pulmonary function studies. Internal lung tests called bronchoalveolar lavage. Lung biopsy. CAT Scan.
Is there a cost to me for the medical screening?	No	No	No	No
Where do I have my blood drawn for the Be-LPT?	At a site arranged by your site occupational medicine department.	At a site arranged by your site occupational medicine department.	At the site identified by the Former Worker Program Director.	At the site designated by ORISE. This may be a DOE occupational medicine department.
Could the results of screening or follow-up tests affect my future work?	Yes. If your tests are positive, the physician will probably recommend your removal from all work with beryllium or in beryllium-contaminated areas.	If your tests are positive, the physician will probably recommend that you never again work with beryllium or in a beryllium-contaminated area.	If your tests are positive, the physician will probably recommend that you never again work with beryllium or in a beryllium-contaminated area.	If your tests are positive, the physician will probably recommend that you never again work with beryllium or in a beryllium-contaminated area.

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What happens if the doctor recommends I no longer work with beryllium?	<p>The site occupational medicine department and/or your employer will notify you in writing that the physician has recommended you be temporarily or permanently removed from beryllium related work.</p> <p>You will be provided information and counseling regarding your employment options.</p>	<p>This would have no effect on your current work if you no longer work with or around beryllium or in a beryllium-contaminated facility. It could affect your ability to work with or around beryllium or in a beryllium-contaminated facility in the future.</p>	<p>This would have no effect on your current work if you no longer work with or around beryllium or in a beryllium-contaminated facility. It could affect your ability to work with or around beryllium or in a beryllium contaminated facility in the future.</p>	<p>This would have no effect on your current work if you no longer work with or around beryllium or in a beryllium-contaminated facility. It could affect your ability to work with or around beryllium or in a beryllium contaminated facility in the future.</p>
Are there any physical risks to me if I choose to participate?	<p>Because, in addition to the blood Be-LPT, the clinical work-up may include invasive medical procedures, there is some risk. This will be fully explained to you before you give consent to any medical test.</p>	<p>Because, in addition to the blood Be-LPT, the clinical work-up may include invasive medical procedures, there is some risk. This will be fully explained to you before you give consent to any medical test.</p>	<p>Because, in addition to the blood Be-LPT, the clinical work-up may include invasive medical procedures, there is some risk. This will be fully explained to you before you give consent to any medical test.</p>	<p>Because, in addition to the blood Be-LPT, the clinical work-up may include invasive medical procedures, there is some risk. This will be fully explained to you before you give consent to any medical test.</p>
Are there any other risks to me if I choose to participate?	<p>There have been reports of individuals who have tested positive for beryllium disease being denied mortgage protection insurance and life insurance, and as previously discussed, your ability to work with beryllium or in beryllium-contaminated facilities may be affected.</p>	<p>There have been reports of individuals who have tested positive for beryllium disease being denied mortgage protection insurance and life insurance, and as previously discussed, your ability to work with beryllium or in beryllium-contaminated facilities may be affected.</p>	<p>There have been reports of individuals who have tested positive for beryllium disease being denied mortgage protection insurance and life insurance, and as previously discussed, your ability to work with beryllium or in beryllium-contaminated facilities may be affected.</p>	<p>There have been reports of individuals who have tested positive for beryllium disease being denied mortgage protection insurance and life insurance, and as previously discussed, your ability to work with beryllium or in beryllium-contaminated facilities may be affected.</p>

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Where are my test results kept?	The occupational medicine department maintains your screening results as they do your medical records.	The occupational medicine department maintains your screening results as they do your medical records.	The site identified by the project directors maintains your test results.	ORISE maintains your test results.
Who can have access to records of my medical screening results?	<p>They are DOE-owned³ confidential medical records.</p> <p>Your records may only be released with your permission, or as allowed by:</p> <ul style="list-style-type: none"> • The Privacy Act of 1974. • The Americans with Disabilities Act. • A court order, or other such laws. <p>Your records may be released for necessary official purposes of DOE, National Institute of Occupational Safety and Health, Occupational Safety and Health Administration, state health departments, or Congress.</p>	<p>They are DOE-owned³ confidential medical records.</p> <p>Your records may only be released with your permission, or as allowed by:</p> <ul style="list-style-type: none"> • The Privacy Act of 1974. • The Americans with Disabilities Act. • A court order, or other such laws. <p>Your records may be released for necessary official purposes of DOE, National Institute of Occupational Safety and Health, Occupational Safety and Health Administration, state health departments, or Congress.</p>	<p>They are confidential medical records and may only be released with your permission. If your tests are conducted through ORISE, the records are DOE-owned.</p> <p>Your records may only be released with your permission, or as allowed by:</p> <ul style="list-style-type: none"> • The Privacy Act of 1974. • The Americans with Disabilities Act. • A court order, or other such laws. <p>Your records may be released for official purposes of DOE, National Institute of Occupational Safety and Health, state health departments, or Congress.</p>	<p>They are confidential medical records and may only be released with your permission. If your tests are conducted through ORISE, the records are DOE-owned.</p> <p>Your records may only be released with your permission, or as allowed by:</p> <ul style="list-style-type: none"> • The Privacy Act of 1974. • The Americans with Disabilities Act. • A court order, or other such laws. <p>Your records may be released for official purposes of DOE, National Institute of Occupational Safety and Health, state health departments, or Congress.</p>

³ The beryllium rule requires that these records are DOE-owned (10 CFR 850.39(B)(1) and confidential (10 CFR 850.39(e)).

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			Sites with Former Worker Medical Surveillance Programs	All other sites
Who else can have access to my medical information related to beryllium?	<p>No one unless your identity is removed.</p> <p>There are other individuals who may use “de-identified” medical information (without personal identifiers). These may include:</p> <ul style="list-style-type: none"> • Certain DOE officials responsible for The Chronic Beryllium Disease Prevention Program. • Scientists and researchers working under DOE agreements. • The Oak Ridge Institute for Science and Education (ORISE). <p>No report or published health study will contain personal identifiers.</p>	<p>No one unless your identity is removed.</p> <p>There are other individuals who may use “de-identified” medical information (without personal identifiers). These may include:</p> <ul style="list-style-type: none"> • Certain DOE officials responsible for The Chronic Beryllium Disease Prevention Program. • Scientists and researchers working under DOE agreements. • The Oak Ridge Institute for Science and Education (ORISE). <p>No report or published health study will contain personal identifiers.</p>	<p>Other groups who may require access to records that identify you by name are:</p> <ul style="list-style-type: none"> • DOE officials involved in the former worker program. • Medical department and benefits staff at the DOE site where you worked with beryllium. • Medical specialists who provide for additional medical treatment or tests. • Scientists and researchers working under DOE agreements. • The Oak Ridge Institute for Science and Education (ORISE). <p>This information may or may not have personal identifying information attached to it.</p> <p>No report or published health study will contain personal identifiers.</p>	<p>Other groups who may require access to records that identify you by name are:</p> <ul style="list-style-type: none"> • DOE officials involved in the former beryllium worker program. • Medical department and benefits staff at the DOE site where you worked with beryllium. • Medical specialists who provide for additional medical treatment or tests. • Scientists and researchers working under DOE agreements. • The Oak Ridge Institute for Science and Education (ORISE). <p>This information may or may not have personal identifying information attached to it.</p> <p>No report or published health study will contain personal identifiers.</p>

	Current DOE Worker Programs		Former DOE Worker Programs	
	Currently works with beryllium	Previously worked with or may have been exposed to beryllium	Previously employed at DOE and may have been exposed to beryllium while working at a DOE site	
			Sites with Former Worker Medical Surveillance Programs	All other sites
What is the Beryllium Registry?	<p>The registry was established by regulation to monitor the effectiveness of DOE's Chronic Beryllium Disease Prevention Program in preventing chronic beryllium disease.</p> <p>The registry will also be used to conduct health studies to help us better understand CBD and those at risk of developing the disease.</p> <p>Registry data includes:</p> <ul style="list-style-type: none"> • Birth year and gender. • Work history. • Beryllium exposure. • Medical evaluations. <p>The data in the registry does not include personal identifiers such as name, Social Security number, address, or phone number.</p>	<p>The registry was established by regulation to monitor the effectiveness of DOE's Chronic Beryllium Disease Prevention Program in preventing chronic beryllium disease.</p> <p>The registry will also be used to conduct health studies to help us better understand CBD and those at risk of developing the disease.</p> <p>Registry data includes:</p> <ul style="list-style-type: none"> • Birth year and gender. • Work history. • Beryllium exposure. • Medical evaluations. <p>The data in the registry does not include personal identifiers such as name, Social Security number, address, or phone number.</p>	<p>The registry was established by regulation to monitor the effectiveness of DOE's Chronic Beryllium Disease Prevention Program in preventing chronic beryllium disease.</p> <p>The registry will also be used to conduct health studies to help us better understand CBD and those at risk of developing the disease.</p> <p>Registry data includes:</p> <ul style="list-style-type: none"> • Birth year and gender. • Work history. • Beryllium exposure. • Medical evaluations. <p>The data in the registry does not include personal identifiers such as name, Social Security number, address, or phone number.</p>	<p>The registry was established by regulation to monitor the effectiveness of DOE's Chronic Beryllium Disease Prevention Program in preventing chronic beryllium disease.</p> <p>The registry will also be used to conduct health studies to help us better understand CBD and those at risk of developing the disease.</p> <p>Registry data includes:</p> <ul style="list-style-type: none"> • Birth year and gender. • Work history. • Beryllium exposure. • Medical evaluations. <p>The data in the registry does not include personal identifiers such as name, Social Security number, address, or phone number.</p>

Glossary

Beryllium Sensitivity - Sensitivity occurs when the body's immune system reacts to beryllium as a threat to the body. The body will respond to the presence of beryllium by producing white blood cells called lymphocytes. It is similar to an allergic reaction.

Chronic Beryllium Disease - If someone is has a sensitivity to beryllium the body may begin to form scar tissue around the beryllium in the lungs. This scar tissue reduces the effectiveness and capacity of the lungs.

Bronchoalveolar Lavage - This is a medical procedure that washes out cells from the lung to determine the presence of lymphocytes that are sensitized to beryllium. Small samples of lung tissue - a lung biopsy - may also be collected during this process to aid in diagnosis of CBD.

Beryllium Lymphocyte Proliferation Test (Be-LPT) - A laboratory test that can be done on a sample of blood or a specimen taken during a bronchoalveolar lavage used to determine the response of white blood cells to the presence of Be. It is used as a screening test for beryllium sensitivity.

Former Worker Programs (FWPs) - The goal of these programs, established in 1993, is to evaluate the health conditions of former employees that may be at risk for health problems related to their employment at a DOE site.